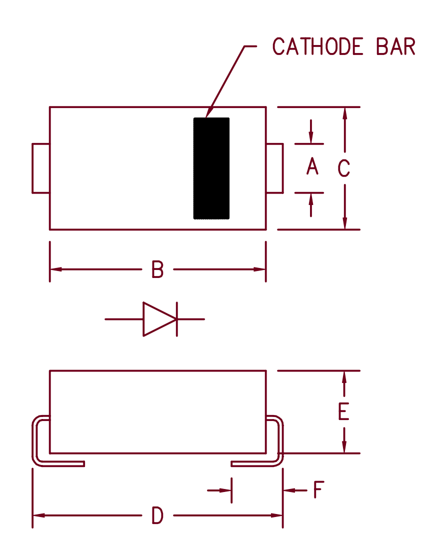
3 Amp Schottky Rectifiers
SK32B — SK310B



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.068	.087	1.73	2.21	
B	.157	.177	3.99	4.50	
C	.130	.155	3.30	3.94	
D	.194	.228	4.93	5.79	
E	.078	.115	1.98	2.92	
F	.030	.060	.760	1.52	

SMB
DO—214AA

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
SK32B	20V	20V
SK33B	30V	30V
SK34B	40V	40V
SK36B	60V	60V
SK38B	80V	80V
SK310B	100V	100V

- Schottky Barrier Rectifier
- Low Forward Voltage Drop
- 20—100 Volts
- Low switching losses
- Round lead design

Electrical Characteristics

Average forward current	$I_{F(AV)}$	3.0A	T_J = 120°C
Maximum surge current	I_{FSM}	100A	8.3ms half—sine
Max repetitive reverse current	$I_{R(OV)}$	2A	f = 1KHZ, 25°C, 1μs square wave
Max peak forward voltage (SK32B—SK34B)	V_{FM}	.50V	I_{FM} = 3.0A:T_J = 25°C*
Max peak forward voltage (SK36B)	V_{FM}	.75V	I_{FM} = 3.0A:T_J = 25°C*
Max peak forward voltage (SK38B—SK310B)	V_{FM}	.85V	I_{FM} = 3.0A:T_J = 25°C*
Max peak reverse current	I_{RM}	.5mA	V_{RRM}, T_J = 25°C
Max peak reverse current	I_{RM}	20mA	V_{RRM}, T_J = 100°C*
Typical junction capacitance	C_J	250pF	V_R = 5.0V, T_J = 25°C

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	—55°C to 150°C
Operating junction temp range	T_J	—55°C to 125°C
Maximum thermal resistance	$R_{\theta JC}$	10°C/W

9—3—02 Rev. 1



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SK32B — SK310B

Figure 1
Typical Forward Characteristics

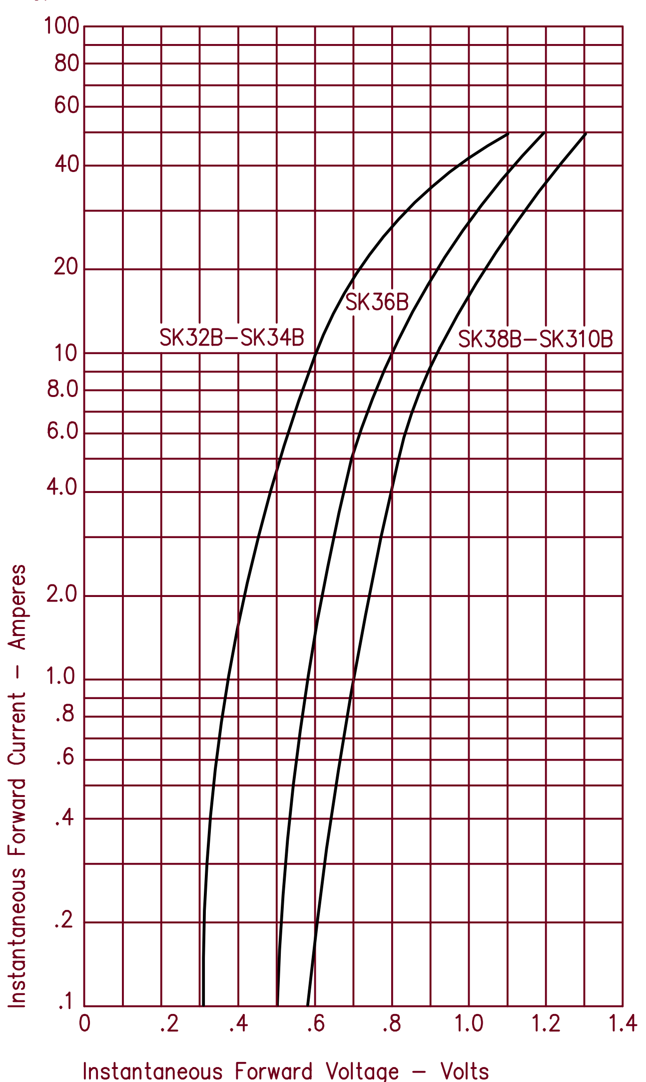


Figure 3
Typical Junction Capacitance

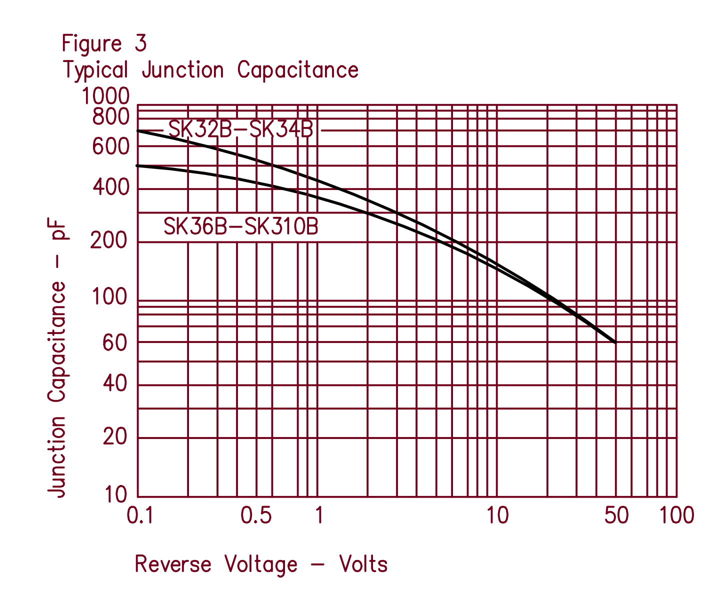


Figure 2
Typical Reverse Characteristics @ 100°C

